

What is claimed is:

1. A polyvinyl acetal having a degree of acetalization of from 45 to 80 mol%, which is obtained through acetalization of a polyvinyl alcohol that has a degree of polymerization of from 30 to 1000 and a degree of hydrolysis of from 80.0 to 99.99 mol% and is terminated with an ionic group via a sulfido bond while satisfying the requirement of the following formula (1):

$$0.15 \leq \text{content} \leq 218.3 \times P^{-1.046} \quad (1)$$

wherein the content means the content of the ionic group bonded to the polyvinyl alcohol via a sulfido bond (mol%); and P indicates the degree of polymerization of the polyvinyl alcohol.

2. The polyvinyl acetal as claimed in claim 1, for which the polyvinyl alcohol has a 1,2-glycol bond content of from 1 to 2 mol% and satisfies the following formula (2):

$$0.15 \leq \text{content} \leq -0.0606 \times Y + 2.3049 \quad (2)$$

wherein the content means the content (mol%) of the ionic group bonded to the polyvinyl alcohol via a sulfido bond; and Y indicates a 1,2-glycol bond content of the polyvinyl alcohol.

3. The polyvinyl acetal as claimed in claim 1, wherein the ionic group is at least one selected from a carboxyl group, a carboxylate salt, a sulfonic acid group and a sulfonate salt.

4. The polyvinyl acetal as claimed in claim 1, which is obtained through butyralization of a polyvinyl alcohol and of which the degree of butyralization is from 60 to 80 mol%.

5. A binder for ceramic molding, which comprises, as

the essential ingredient thereof, the polyvinyl acetal of claim 1.

6. A ceramic green sheet fabricated by the use of the binder for ceramic forming of claim 5.

7. A binder for ink or paint, which comprises, as the essential ingredient thereof, the polyvinyl acetal of claim 1.

8. Ink or paint that contains from 1 to 35 % by weight of the binder for ink or paint of claim 7.

9. A polyvinyl acetal composition that contains (A) a polyvinyl acetal having a degree of acetalization of from 45 to 80 mol%, which is obtained through acetalization of a polyvinyl alcohol that has a degree of polymerization of from 30 to 1000 and a degree of hydrolysis of from 80.0 to 99.99 mol% and is terminated with an ionic group via a sulfido bond while satisfying the requirement of the following formula (1), and (B) a polyvinyl acetal having a degree of acetalization of from 45 to 80 mol% and obtained through acetalization of a polyvinyl alcohol having a degree of polymerization of from 100 to 4000 and a degree of hydrolysis of from 80.0 to 99.99 mol%, in a ratio by weight of $5/95 \leq (A)/(B) \leq 100/0$:

$$0.15 \leq \text{content} \leq 218.3 \times P^{-1.046} \quad (1)$$

wherein the content means the content of the ionic group bonded to the polyvinyl alcohol via a sulfido bond (mol%); and P indicates the degree of polymerization of the polyvinyl alcohol.

10. The polyvinyl acetal composition as claimed in claim 9, wherein the polyvinyl alcohol (A) has a 1,2-glycol bond content of from 1 to 2 mol% and satisfies the following formula (2):

$$0.15 \leq \text{content} \leq -0.0606 \times Y + 2.3049 \quad (2)$$

wherein the content means the content of the ionic group bonded to the polyvinyl alcohol via a sulfido bond (mol%); and Y indicates the 1,2-glycol bond content of the polyvinyl alcohol.

11. A binder for ceramic forming, which comprises, as the essential ingredient thereof, the polyvinyl acetal composition of claim 9.

12. A ceramic green sheet fabricated by the use of the binder for ceramic forming of claim 11.

13. A binder for ink or paint, which comprises, as the essential ingredient thereof, the polyvinyl acetal composition of claim 9.

14. Ink or paint that contains from 1 to 35 % by weight of the binder for ink or paint of claim 13.